

CLAIMS

1. A non-austemper-treated spheroidal graphite cast iron obtainable without being subjected to an austemper treatment,

5 characterized in that the non-austemper-treated spheroidal graphite cast iron has a tensile strength of 650 - 850 MPa and an elongation of 7.0 - 14.5%.

2. A non-austemper-treated spheroidal graphite cast iron obtained without being subjected to an austemper treatment,

10 characterized in that V-notch material has a fatigue limit of 290 MPa or more.

3. A non-austemper-treated spheroidal graphite cast iron according to claim 1 or 2, wherein the non-austemper-treated spheroidal cast iron contains 0.05 - 0.45% by mass of Mn.

15 4. A non-austemper-treated spheroidal graphite cast iron according to claim 3, wherein the non-austemper-treated spheroidal cast iron contains 2.0 - 4.0% by mass of Ni.

50 20 5. A non-austemper-treated spheroidal graphite cast iron according to any one of claims 1 - 4, wherein the non-austemper-treated spheroidal cast iron has a Brinell hardness of 230 - 285 HB.

25 6. A non-austemper-treated spheroidal graphite cast iron according to any one of claims 1 - 4, wherein the non-austemper-treated spheroidal cast iron has a flank wear of 0.13 mm or less in a cutting distance of 1.7 km.

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1. A non-austemper-treated spheroidal graphite cast iron obtainable without being subjected to an austemper treatment,
5 characterized in that the non-austemper-treated spheroidal graphite cast iron has a tensile strength of 650 – 850 MPa and an elongation of 7.0 – 14.5%.
2. A non-austemper-treated spheroidal graphite cast iron obtained without being subjected to an austemper treatment,
10 characterized in that V-notch material has a fatigue limit of 290 MPa or more.
3. A non-austemper-treated spheroidal graphite cast iron according to claim 1 ~~or 2~~, wherein the non-austemper-treated spheroidal cast iron contains 0.05 – 0.45% by mass of Mn.
- 15 4. A non-austemper-treated spheroidal graphite cast iron according to claim 3, wherein the non-austemper-treated spheroidal cast iron contains 2.0 – 4.0% by mass of Ni.
5. A non-austemper-treated spheroidal graphite cast iron according to ~~any one of claims 1 – 4~~ claim 3, wherein the
20 non-austemper-treated spheroidal cast iron has a Brinell hardness of 230 – 285 HB.
6. A non-austemper-treated spheroidal graphite cast iron according to ~~any one of claims 1 – 4~~ claim 4, wherein the non-austemper-treated spheroidal cast iron has a flank wear of
25 0.13 mm or less in a cutting distance of 1.7 km.

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